Author Index of Volume 40

Adams, W. A., 323
Ananth, M. V., 355
Antolini, E., 265
Aputeanu, L., 125
Arias, J. L., 63

Bagshaw, N. E., 113
Bolwin, K., 307
Brandt, D. D., 73
Buchanan, J. S., 137

Campbell, S. A., 137
Champlin, K. S., 235
Chen, Z. W., 225
Cole, J. F., 1
Constanti, K. K., 125
Croda, T. G., 235

Dakshinamurthi, K., 355
De Paoli, M.-A., 299
Dietz, H., 175
Dittmar, L., 175
Donepudi, V. S., 323
Drake, E. D., 63
Dyson, J. I., 39

Feder, D. O., 235
Feng, L., 361
Fujieda, T., 283
Füllbier, H., 257

Gillian, W. F., 225
Girgis, M., 323

Higuchi, S., 283
Hlavac, M. J., 235
Hollenkamp, A. F., 125
Hooper, A., 271
Huey, A. M., 125

Jochim, D. M., 93

Kanamura, K., 291
Koop, M. J., 125

Lenain, P., 187
Leonov, V. N., 213
Liccardo, M., 17
Lühder, K., 257

Maggetto, G., 17
Maja, M., 81
May, G. J., 187
McShane, S. J., 235
Meissner, E., 157
Morello, G., 81
Moseley, P. T., 147

Naidenov, V., 333
Najdenov, V., 341
Nikolov, I., 333, 341
Noguchi, H., 347
Nowak, D. K., 105

Ohms, D., 175

Panero, S., 299
Papazov, G., 333, 341
Pavlov, D., 169
Peat, R., 147
Peres, R. C. D., 299
Peter, L. M., 137

Rabenstein, H., 157
Radwan, M., 175
Rice, D. M., 225
Richard, J.-L., 23
Robinson, R. S., 149
Rowlette, J. J., 63
Rusin, A. I., 213

Sakaebe, H., 291
Salmi, K., 217
Samuel, S. J., 27
Schmidt, L., 257
Schnittke, A., 257
Scrosati, B., 299
See, J. B., 225
Sequeira, C. A. C., 271
Spinelli, P., 81
Stevenson, J. M., 39
Sundholm, G., 217

Tabe Mohammadi, A., 323
Takahashi, S., 283
Takehara, Z., 291
Tanaka, H., 347
Tominaga, K., 347
Tuphorn, H., 47

Valeriote, E. M., 93
Van den Bossche, P., 17

Wang, B., 361
Weighall, M. J., 195
Wiesener, K., 175

Xia, Y., 361

Yoshio, M., 347

Zeng, Z., 361

Subject Index of Volume 40

Alloy
  cycling behaviour of electrodeposited zinc alloy electrode for secondary lithium batteries, 283
Alloys
  the anodic behaviour of tin and a lead–tin alloy in sulfuric acid, 217
  castability of low-antimony/lead battery alloys, 225
  unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323
Ammonium ligno-sulphonate,
  unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323
Anodic behaviour
  the anodic behaviour of tin and a lead–tin alloy in sulfuric acid, 217
Antimony
  castability of low-antimony/lead battery alloys, 225
  unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323

Barium
  High-temperature superconductor, $YBa_2Cu_3O_{7-x}$ as all-solid-state lithium cell, 361
Battery applications
  development status of a sealed bipolar lead/acid battery for high-power battery applications, 63
  electrolytic manganese dioxides for battery applications: studies using electron paramagnetic resonance, 355
Battery separator technology
  worldwide trends in battery separator technology and usage, 195
Battery technology
  submarine battery technology – an aid to electric vehicle battery design?, 113

Bromine
  a study on novel lithium–iodine and lithium–bromine solid electrolyte batteries, 257

Calcium
  unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323
Capacity
  premature capacity-loss mechanisms in lead/acid batteries, 125
  reversible capacity decay of PbO_2 electrodes. Influence of high rate discharges and rest times, 157
  influence of crystal and gel zones on the capacity of the lead dioxide active mass (extended abstract), 169
  conductance testing compared to traditional methods of evaluating the capacity of valve-regulated lead/acid batteries and predicting state-of-health, 235
Catalysts
  noble metal-free catalysts for the hydrogen/oxygen recombination in sealed lead/acid batteries using immobilized electrolytes, 175
Cathode
  application of FeOCl derivatives as cathode materials for a secondary lithium battery. II. Comparison of the discharge and charge characteristics of γ-FeOOH prepared from the intercalation compound of FeOCl and 4-aminopyridine with those of FeOOH intercalated with aniline (a-FeOOH(AN)), 291
Cathodes
  a new way of obtaining $Li_xNi_{1-x}O$ cathodes for molten-carbonate fuel cells, 265
Charging
  a model for simulating fast charging of lead/acid batteries, 81
  very fast charging of low-resistance lead/acid batteries, 93

gas detection and minimization of gas and heat production at the end of fast charging, 105
Cobalt
synthesis of $LiCoO_2$ from cobalt–organic acid complexes and its electrode behaviour in a lithium secondary battery, 347
Conductance testing
conductance testing compared to traditional methods of evaluating the capacity of valve-regulated lead/acid batteries and predicting state-of-health, 235
Copper
high-temperature superconductor, $YBa_2Cu_3O_{7-x}$ as all-solid-state lithium cell, 361
Corrrosion
activity and corrosion of tungsten carbide recombination electrodes during lead/acid battery operation, 333
Cycle testing
driving cycle testing of electric vehicle batteries and systems, 73
Cycling behaviour
cycling behaviour of electrodeposited zinc alloy electrode for secondary lithium batteries, 283

Discharge/charge characteristics
application of FeOCl derivatives as cathode materials for a secondary lithium battery. II. Comparison of the discharge and charge characteristics of γ-FeOOH prepared from the intercalation compound of FeOCl and 4-aminopyridine with those of FeOOH intercalated with aniline (a-FeOOH(AN)), 291

Electrical breakdown
electrical breakdown phenomena in $(PEO)_xLiF_3CSO_3$ ion-conducting polymers, 271
Electric vehicle battery
driving cycle testing of electric vehicle batteries and systems, 73
submarine battery technology — an aid to electric vehicle battery design?, 113
Electric vehicle(s)
CITELEC — electric vehicles on the move in Europe's cities, 17
alternative strategy for introducing electric vehicles, 23
the Clean Air LA301 electric vehicle for the Los Angeles electric vehicle initiative, 27
tubular positive plate batteries for motive power and electric vehicle applications, 39
gelled-electrolyte batteries for electric vehicles, 47
Electrochemical behaviour
unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323
Electrode
a new electrode for a poly(pyrrole)-based rechargeable battery, 299
Electrode behaviour
synthesis of $LiCoO_2$ from cobalt–organic acid complexes and its electrode behaviour in a lithium secondary battery, 347
Electrodes
reversible capacity decay of PbO_2 electrodes. Influence of high rate discharges and rest times, 157
activity and corrosion of tungsten carbide recombination electrodes during lead/acid battery operation, 333
performance of tungsten carbide recombination electrodes under various operating conditions, 341
Electron paramagnetic resonance
electrolytic manganese dioxides for battery applications: studies using electron paramagnetic resonance, 355
Epoxy matrices
mounting of lead/acid battery positive-plate materials in epoxy matrices: an investigation of instances of excessive heating, 365

Fluorine
electrical breakdown phenomena in $(PEO)_xLiF_3CSO_3$ ion-conducting polymers, 271

Gas detection
gas detection and minimization of gas and heat production at the end of fast charging, 105

Gelled electrolyte
gelled-electrolyte batteries for electric vehicles, 47
gelled-electrolyte lead/acid batteries for stationary and traction applications, 187
Grid–paste interface
scanning laser microscopy studies of grid-paste interfacial areas, 147

Hydrogen/oxygen recombination
noble metal-free catalysts for the hydrogen/oxygen recombination in sealed lead/acid batteries using immobilized electrolytes, 175

Iodine
a study on novel lithium–iodine and lithium–bromine solid electrolyte batteries, 257
Iron
application of FeOCl derivatives as cathode materials for a secondary lithium battery. II. Comparison of the discharge and charge characteristics of γ-FeOOH prepared from the intercalation compound of FeOCl and 4-aminopyridine with those of FeOOH intercalated with aniline (a-FeOOH(AN)), 291

Lead
the anodic behaviour of tin and a lead–tin alloy in sulfuric acid, 217
castability of low-antimony/lead battery alloys, 225
unusual effects of ammonium ligno-sulphonate on the electrochemical behaviour of lead, lead–calcium, and lead–antimony alloys, 323
Lead/acid batteries
the Advanced Lead/Acid Battery Consortium, 1
development status of a sealed bipolar lead/acid battery for high-power battery applications, 63
a model for simulating fast charging of lead/acid batteries, 81
very fast charging of low-resistance lead/acid batteries, 93
premature capacity-loss mechanisms in lead/acid batteries, 125
noble metal-free catalysts for the hydrogen-oxygen recombination in sealed lead/acid batteries using immobilized electrolytes, 175
gelled-electrolyte lead/acid batteries for stationary and traction applications, 187
conductance testing compared to traditional methods of evaluating the capacity of valve-regulated lead/acid batteries and predicting state-of-health, 235
activity and corrosion of tungsten carbide recombination electrodes during lead/acid battery operation, 333
mounting of lead/acid battery positive-plate materials in epoxy matrices: an investigation of instances of excessive heating, 365
Lead/acid system
photocurrent spectroscopy and its application to the study of the lead/acid system, 137
Lead dioxide
scanning tunneling microscopy of lead dioxide, 149
reversible capacity decay of PbO_2 electrodes. Influence of high rate discharges and rest times, 157
influence of crystal and gel zones on the capacity of the lead dioxide active mass (extended abstract), 169
Lithium
a study on novel lithium–iodine and lithium–bromine solid electrolyte batteries, 257
a new way of obtaining $Li_xNi_{1-x}O$ cathodes for molten-carbonate fuel cells, 265
electrical breakdown phenomena in $(PEO)_xLiF_3CSO_3$ ion-conducting polymers, 271
cycling behaviour of electrodeposited zinc alloy electrode for secondary lithium batteries, 283
application of FeOCl derivatives as cathode materials for a secondary lithium battery. II. Comparison of the discharge and charge characteristics of γ-FeOOH prepared from the intercalation compound of FeOCl and 4-aminopyridine with those of FeOOH intercalated with aniline (a-FeOOH(AN)), 291
synthesis of $LiCoO_2$ from cobalt–organic acid complexes and its electrode behaviour in a lithium secondary battery, 347

high-temperature superconductor, $YBa_2Cu_3O_{7-x}$ as all-solid-state lithium cell, 361

Manganese
electrolytic manganese dioxides for battery applications: studies using electron paramagnetic resonance, 355
Molten-carbonate fuel cells
a new way of obtaining $Li_xNi_{1-x}O$ cathodes for molten-carbonate fuel cells, 265

Nickel
a new way of obtaining $Li_xNi_{1-x}O$ cathodes for molten-carbonate fuel cells, 265

Organic acids
synthesis of $LiCoO_2$ from cobalt–organic acid complexes and its electrode behaviour in a lithium secondary battery, 347

Photocurrent spectroscopy
photocurrent spectroscopy and its application to the study of the lead/acid system, 137
Poly(ethylene oxide)
electrical breakdown phenomena in $(PEO)_xLiF_3CSO_3$ ion-conducting polymers, 271
Poly(pyrrole)
a new electrode for a poly(pyrrole)-based rechargeable battery, 299
Positive plate
tubular positive plate batteries for motive power and electric vehicle applications, 39
mounting of lead/acid battery positive-plate materials in epoxy matrices: an investigation of instances of excessive heating, 365

Regenerative fuel cells
application of regenerative fuel cells for space energy storage: a comparison to battery systems, 307

Scanning laser microscopy
scanning laser microscopy studies of grid-paste interfacial areas, 147
Scanning tunneling microscopy
scanning tunneling microscopy of lead dioxide, 149
Solid electrolyte
a study on novel lithium–iodine and lithium–bromine solid electrolyte batteries, 257
Space
application of regenerative fuel cells for space energy storage: a comparison to battery systems, 307
Stationary applications
gelled-electrolyte lead/acid batteries for stationary and traction applications, 187
Storage batteries
storage batteries for submarines (extended abstract), 213
Submarine(s)
submarine battery technology — an aid to electric vehicle battery design?, 113
storage batteries for submarines (extended abstract), 213
Superconductor
high-temperature superconductor, $YBa_2Cu_3O_{7-x}$ as all-solid-state lithium cell, 361

Tin
the anodic behaviour of tin and a lead–tin alloy in sulfuric acid, 217
Traction applications
gelled-electrolyte lead/acid batteries for stationary and traction applications, 187
Tungsten carbide
activity and corrosion of tungsten carbide recombination electrodes during lead/acid battery operation, 333
performance of tungsten carbide recombination electrodes under various operating conditions, 341

Yttrium
high-temperature superconductor, $YBa_2Cu_3O_{7-x}$ as all-solid-state lithium cell, 361

Zinc
cycling behaviour of electrodeposited zinc alloy electrode for secondary lithium batteries, 283